

## ABSTRACT

A molten metal submergence device includes a submergence chamber, an inlet pipe, and a vortex breaker. The submergence chamber is defined by a side wall and includes an inlet in communication with an associated molten metal bath and an outlet in communication with the associated molten metal bath. The inlet is positioned in relation to the side wall such that material passing through the inlet is introduced at least substantially tangentially to the side wall. The inlet pipe is in communication with the inlet of the submergence chamber. The inlet pipe is configured to depend from a wall of the submergence chamber within the confines of the side wall. The vortex breaker is disposed in the submergence chamber between the inlet and the outlet.

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